Hammad **Khan**

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Experience

Plotly   *Montréal , Canada*
DASH CORE DEVELOPER   *May. 2019 - Present*

- Worked as a member of an agile-driven team in a fast-paced startup environment on Dash, one of the most popular open-source frameworks for operationalizing and visualizing data analytics at scale.

- Developed the Dash core infrastructure; Using Python, R, and Javascript to create, test, and iterate upon features for open source development and enterprise platforms.

- Performed code reviews and QA, developed deployment processes with Heroku and Docker, and executed containerized app deployments to Azure and AWS.

- Worked closely with product and sales engineering teams to understand and construct product pathways with customer and community requested features in mind.
- Designed and built complex web-based interactive analytics applications for life sciences, financial, automotive and energy sectors using Dash for Python and R.

Cognizant   *Toronto, Canada*
TECHNICAL REPORTING ANALYST - TEAM LEAD   *May. 2018 - Jan. 2019*

- Performed incident data analysis to diagnose problem areas using Excel to identify issues and formulate targeted solutions.

- Facilitated communication between clients and specialized teams as a systems engineer while identifying areas for improvement and process gaps, maintaining SLA metrics by over 25%.

Education

University of Toronto   *Toronto, Canada*
HONORS B.SC. BIOLOGY SPECIALIST, COMPUTER SCIENCE MINOR   *Sep. 2014 - Apr. 2019*

- University of Toronto graduate with an Honors BSc. in Biology with a focus on Computational Biology and Bioinformatics.

- Experience with defining workflows for data analysis and creating clean, optimized code, for computational analysis of biological data.

- Scotiabank Entrance Scholarship for Academic Excellence, Nancy Salmon Scholarship Fund

Projects

Independent Research Project   *University of Toronto, Canada*
GENOMICS   *January. 2018 - March. 2018*

- Performed statistical and biological analysis on patient data from the Personal Genome Project by emulating pipelines presented in journal article.
- Visualized statistical results in R with MatLab and presented interactive interface for results with R Shiny Applet.

Bioinformatics and Computational Biology Hackathon 2018   *University of Toronto, Canada*
FINALISTS   *March. 2018*

- Collaborated with a team of engineering, biology, and bioinformatics student to create a data-driven visual representation of our current understanding of the human genome by scraping data from various sources and compiling it in a final graphical render with D3.JS.

Skills

Technical R(Advanced), Python (Advanced), JavaScript (Intermediate), React (Intermediate), Git and Version Control (Advanced) HTML/CSS (Intermediate), Unix Shell Programming Environment, Selenium, CircleCI, Docker, Package development

Relevant **Software Engineering** - Algorithm design, Front-End Development, Dashboard creation, Web development, Git/Version Control, Application deployment and Maintenance.

Bioinformatics DNA/Protein alignment and sequence analysis, genome sequencing, machine learning and clustering.

Genomics - Variant mining and visualization, RNAseq transcript assembly and analysis, de Novo assembly.